

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE   OF PAGES	
2. AMENDMENT/MODIFICATION NO. 0004		3. EFFECTIVE DATE 17 July 2000		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
USACE, Philadelphia (CENAP-CT-C) POC: David Dilks 100 Penn Square East, Wanamaker Building Philadelphia, Pennsylvania 19107-3390						(✓) 9A. AMENDMENT OF SOLICITATION NO. DACW61-00-B-0005  ✕ 9B. DATED (SEE ITEM 11) 14 June 2000  10A. MODIFICATION OF CONTRACTS/ORDER NO.  10B. DATED (SEE ITEM 13)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)							
CODE				FACILITY CODE			

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers

☒ is extended,   ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)  
 Rehabilitation of Wilmington Harbor South Jetty, Wilmington, Delaware

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,  
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor ☐ is not,   ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Please indicate receipt of this Amendment on Standard Form 1442 (Solicitation, Offer, and Award) as Amendment Number 0004. Failure to acknowledge all Amendments may be cause for rejection of the bid.

THE BID OPENING DATE IS HEREBY EXTENDED TO 27 JULY 2000, 1:00 PM.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	

14. DESCRIPTION OF AMENDMENT

- a. GENERAL: All pages included in this amendment but not referred to below have been included for the purpose of providing the opposite sides of the amended sheets.
- b. SPECIFICATIONS:
  - (1) SECTION 03307: Please delete page 03307-5 and substitute new page 03307-5 annotated Amendment No. 0004, which is attached hereto.
- c. Please indicate receipt of this amendment on Standard Form 1442 (SOLICITATION, OFFER, AND AWARD) as Amendment 0003. Failure to acknowledge all amendments may be cause for rejection of the bid.

#### 2.1.3.2 Water-Reducing or Retarding Admixture

Water-reducing or retarding admixture shall meet the requirements of ASTM C 494, Type A, B, or D. High-range water reducing admixture Type F may be used only when approved, approval being contingent upon particular placement requirements as described in the Contractor's Quality Control Plan.

#### 2.1.4 Water

Water for mixing and curing shall be fresh, clean, potable, and free from injurious amounts of oil, acid, salt, or alkali, except that unpotable water may be used if it meets the requirements of COE CRD-C 400.

#### 2.1.5 Curing Materials

Curing materials shall conform to the following requirements.

##### 2.1.5.1 Impervious Sheet Materials

Impervious sheet materials, ASTM C 171, type optional, except polyethylene film, if used, shall be white opaque.

##### 2.1.5.2 Membrane-Forming Curing Compound

ASTM C 309, Type 1, Class B.

### PART 3 EXECUTION

#### 3.1 PREPARATION

##### 3.1.1 Preparation of Surfaces to Receive Concrete

Exposed surfaces of the existing sheet piles that will be in contact with concrete shall be cleaned such that they are free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose paint. Tightly adherent mill scale, rust, and paint may remain on the surface. Mill scale, rust, and paint are considered tightly adherent if they cannot be removed by lifting with a dull putty knife. These requirements are in accordance with SSPC-SP 7. Note that at locations where studs are to be attached, the surface needs to be cleaned to "near-white" as per SSPC-SP 10.

##### 3.1.2 Embedded Items

Reinforcement shall be secured in place; anchors, and other embedded items shall have been positioned. Internal ties shall be arranged so that when the forms are removed all metal will be not less than 2 inches from concrete surfaces permanently exposed to view or exposed to water on the finished structures. Embedded items shall be free of oil and other foreign matters such as loose coatings or rust, paint, and scale. The embedding of wood in concrete will be permitted only when specifically authorized or directed. All equipment needed to place, consolidate, protect, and cure the concrete shall be at the placement site and in good operating condition.

##### 3.1.3 Formwork Installation

Formwork fabrication shall have been completed in accordance with Section 03101 of this Specification.

##### 3.1.4 Production of Concrete

##### 3.1.4.1 Ready-Mixed Concrete

Ready-mixed concrete shall conform to ASTM C 94 except as otherwise specified.

#### 3.1.4.2 Batching and Mixing Equipment

The contractor shall have the option of using an on-site batching and mixing facility. The facility shall provide sufficient batching and mixing equipment capacity to prevent cold joints. The method of measuring materials, batching operation, and mixer shall be submitted for review. On-site plant shall conform to the requirements of either ASTM C 94 or ASTM C 685.

### 3.2 CONVEYING AND PLACING CONCRETE

Conveying and placing concrete shall conform to the following requirements.

#### 3.2.1 General

Concrete placement shall not be permitted when weather conditions prevent proper placement and consolidation without approval. When concrete is mixed and/or transported by a truck mixer, the concrete shall be delivered to the site of the work and discharge shall be completed within 1-1/2 hours or 45 minutes when the placing temperature is 85 degrees F or greater unless a retarding admixture is used. Concrete shall be conveyed from the mixer to the forms as rapidly as practicable by methods which prevent segregation or loss of ingredients. Concrete shall be in place and consolidated within 15 minutes after discharge from the mixer. Concrete shall be deposited as close as possible to its final position in the forms and be so regulated that it may be effectively consolidated in horizontal layers 18 inches or less in thickness with a minimum of lateral movement. The placement shall be carried on at such a rate that the formation of cold joints will be prevented.

#### 3.2.2 Underwater Concrete Placement Operation

Concrete shall be deposited in water by use of a concrete pump. The methods and equipment used shall be in accordance with ACI 304R Chapter 8, and meet the approval of the Contracting Officer. The pipeline shall be inserted in the formwork to the top of the working pad and then the concrete shall be placed to the elevation shown on the contract drawings. The pipeline shall be watertight and have a minimum 4 inch inside diameter to permit a free flow of concrete and a maximum outside diameter that will fit into the formwork. The pipeline shall be sealed prior to initial placement by use of a plate and gasket tied to the mouth pipe. The concrete shall be deposited so that it enters the mass of the previously placed concrete from within, displacing water with a minimum disturbance to the surface of the concrete. The discharge end of the pipeline shall be kept continuously submerged in the concrete. All vertical movements of the pipe must be done slowly and carefully to prevent loss of seal. The underwater seal at the start of placing shall not produce undue turbulence in the water. The pipeline shall be kept full of concrete to a point well above the water surface. Placement shall proceed without interruption until the concrete has been brought to the required height. Concrete shall not be deposited in running water or in water with a temperature below 35 degrees F.

#### 3.2.3 Consolidation

Each layer of concrete shall be consolidated by internal vibrating equipment. Internal vibration shall be systematically accomplished by